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(54) SYNTHESIZED QUARTZ GLASS AND MANUFACTURING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a synthesized quartz glass without decrease of transmission factor by an ultraviolet irradiation of wavelength 150-200 nm and the manufacturing method.

SOLUTION: A synthesized quartz glass is characterized by an OH group concentration of 100 ppm or less, hydrogen molecule concentration less than 1×10^{17} molecule/cm³, and no reduction type of defect substantially, therein; and by that change of absorbance index in 150-200 nm after irradiation of an ultraviolet ray of wavelength 172 nm at an illuminance of 10 mW/cm² for 15 kJ/cm² is 0.2 cm⁻¹ or less.

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